

Abstract**5 Microcomponent comprising a hermetically-sealed cavity and a plug,
and method of producing one such microcomponent**

The microcavity (6) is delineated by a cover (4) which is formed on a sacrificial layer and in which at least one hole (5) is formed for removal of the sacrificial layer. A plug (8) covers the hole (5) and part of the cover (4) along 10 the periphery of the hole (5). The plug (8) is made from a material that can undergo creep deformation and can be a polymerized material, in particular selected from photoresists and polyimide, or glass, in particular selected from phosphosilicate glasses. A sealing layer (9) is deposited on the plug (8) and the cover (4) such as to seal the microcavity (6) hermetically. The hole (5) has, for example, a dimension of less than 5 micrometers and is preferably 15 arranged on the highest part of the microcavity (6). The plug (8) can have a thickness of between 2 and 6 micrometers.

(Figure 6)